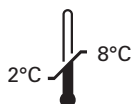


# Kreatech™ FISH probes

## Product Information Sheet

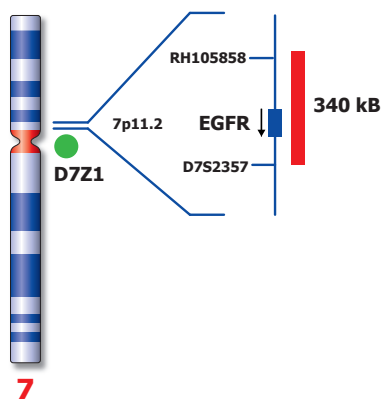
KBI-10702  
EGFR (7p11) / SE 7



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Not to scale

## Kreatech™ EGFR (7p11) / SE 7 FISH probe

**Introduction:** EGFR (ERBB1) is a member of a family of four cell surface membrane receptors (EGFR, ERBB2, ERBB3, ERBB4). Increased activity of the EGFR receptor has been shown to occur in a variety of solid tumors including glioblastoma, non-small cell lung carcinomas, many head/neck carcinomas, and carcinomas of the colon, breast, prostate, stomach, and ovary and is caused by amplification in many tumors. EGFR expression has been correlated with poor prognosis for some types of carcinomas.

**Intended use:** The **EGFR (7p11)** specific FISH probe is optimized to detect copy numbers of the EGFR gene region at region 7p11. The **Satellite Enumeration (SE) 7** FISH probe is included to facilitate chromosome identification.

The probe is recommended to be used in combination with one of the Kreatech Pretreatment kits providing necessary reagents to perform FISH on various sample types for optimal results. (see also [www.LeicaBiosystems.com](http://www.LeicaBiosystems.com) and look for Kits & reagents)

**Critical region 1 (red):** The **EGFR (7p11)** specific FISH probe is direct-labeled with PlatinumBright™550.  
**Control region 2 (green):** The **SE 7** FISH probe is direct-labeled with PlatinumBright™495.

**Reagent:** Kreatech probes are direct-labeled DNA probes provided in a ready-to-use format. Apply 10 µl of probe to a sample area of approximately 22 x 22 mm.

**Please refer to the Instructions for Use for the entire Kreatech FISH protocol.**

**Kreatech FISH probes are REPEAT-FREE™ and therefore do not contain Cot-1 DNA. Hybridization efficiency is increased and background, due to unspecific binding, is highly reduced.**

**Interpretation:** The **EGFR (7p11) / SE 7** FISH probe is designed as a dual-color assay to detect amplification at 7p11. Amplification involving the EGFR gene region at 7p11 will show several red signals, while the control at the chromosome 7 centromere region will provide 2 green signals. Two single color red (R) and green (G) signals will identify the normal chromosomes 7 (2R2G).

	Normal Signal Pattern	Amp(7p11)
Expected Signals	2R2G	3+R2G

**References:** Jolly C et al, 1997, Hum.Genet., 101; 81-87  
 Shimizu N et al, 1994, Jpn.J.Cancer Res., 85; 567-571

**Warning and precautions:** In case of emergencies check SDS sheets for medical advice. SDS sheets may be obtained by either contacting Leica Technical Support or visiting [www.LeicaBiosystems.com](http://www.LeicaBiosystems.com). DNA probes contain formamide which is a teratogen; do not inhale or allow skin contact. Wear gloves and a lab coat when handling DNA probes. All materials should be disposed of according to your institution's guidelines for hospital waste disposal.

**Reagent Storage and Handling:** Store at 2-8 °C. Reagents should not be used after the expiration date on the vial label.

**TECHNICAL SUPPORT** Technical support is available at [www.LeicaBiosystems.com](http://www.LeicaBiosystems.com) or +31 20 6919181 or via e-mail: [kreatech-support@leicabiosystems.com](mailto:kreatech-support@leicabiosystems.com).

**CUSTOMER SERVICE** Kreatech probes may be ordered through Leica Customer Service +31 20 6919181 or order via e-mail: [purchase.orders@leica-microsystems.com](mailto:purchase.orders@leica-microsystems.com).